**Marshall University**

**Syllabus**

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| Course Title/Number  | **MTH 127: College Algebra – Expanded**  |
| Semester/Year | Fall 2015 |
| Days/Time | MTWTrF 10:00 – 10:50 |
| Location | Smith Hall 518 |
| Instructor | Rob-Roy Mace |
| Office | Smith Hall 743E |
| Phone | 304.696.7040  |
| E-Mail | mace22@marshall.edu |
| Office/Hours | MTWTrF 9:00 – 10:00 a.m.  |
| University Policies | By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to <http://www.marshall.edu/academic-affairs/?page_id=802> Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment  |

**Course Description: From Catalog**

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| A brief but careful review of the main techniques of algebra, including but not limited to polynomial, rational, exponential, and logarithmic functions; graphs; systems of equations; etc. |

The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.

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| **Course Student Learning Outcomes**  | **How students will practice each outcome in this Course** | **How student achievement of each outcome will be assessed in this Course** |
| Students will succeed in higher math classes, such as Trigonometry and Calculus. | Discussions, group work, board work, homework | Comprehensive final exam covering concepts encountered in higher math courses. |
| Students will see themselves as possessing the ability to understand and explain basic algebra concepts. | Discussions, group work, board work, homework | Participation in group quizzes, and presentation/explanation of homework solutions to classmates |
| Students will think critically. | Discussions, group work, board work, homework. | Tests and quizzes, including problems requiring synthesis of many ideas to solve unseen problems |

**Required Texts, Additional Reading, and Other Materials**

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| 1. **College Algebra** by Larson, 9th Edition with Graphing Calculator Supplement
2. Graphing calculator, such as a TI-83 or similar.
3. Access to the internet to complete online homework found at webwork.marshall.edu.
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**Grading Policy**

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| Grades will be determined on a percentage basis with five 50-minute exams (each worth 10% of final grade), a comprehensive two-hour final exam (worth 20%), a variety of in class activities such as quizzes, projects, board work (worth 15%), and online work (worth 15%).  Final Grade Scale: A: 100-90% B: 89-80%  C: 79-70%  D: 69-60%  F: 59-0%  |

**Attendance Policy**

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| Attendance **is required**. Consult your handbook regarding university excused absences.Unexcused absences from **nine** classes will result in a reduction of one letter grade for the semester; unexcused absences from **twelve or more** classes will result in an F. Excessive use of cell phone or sleeping during class will be counted as an unexcused absence. It is the responsibility of the student to keep track of the number of unexcused absences they have accumulated. Y**ou must be in class to take quizzes or exams, turn in homework, etc.** If an excused absence results in missing quiz/exam/hw, then a make-up date (*within one week of absence*) must be scheduled with course instructor.  |

**Course Topics**

To provide an understanding of functions: familiarity with major classes of functions, function operations, and graphing functions; solving equations and inequalities; solving systems of equations. To prepare students for success in calculus and statistics courses.

**Course Calendar (Subject to Change)**

week 1

8/24: P.1, P.2

8/25: P.2 (Cont.)

8/26: P.3

8/27: P.4

8/28: P.5

week 2

8/31: P.5 (Cont.)

9/1: P.6

9/2: 1.1

9/3: 1.1 (Cont.) , Supplement on Use of Graphing Calculators

9/4: Supplement on Use of Graphing Calculators (Cont.)

week 3

9/7: LABOR DAY

9/8: 1.2

9/9: 1.3

9/10: 1.3 (Cont.)

9/11: 1.4

week 4

9/14: 1.4 (Cont.)

9/15: 1.5

9/16: REVIEW

9/17: TEST 1

9/18: 1.6

week 5:

9/21: 1.6 (Cont.)

9/22: 1.7

9/23: 1.8 (Polynomials only)

9/24: 2.1

9/25: 2.2

week 6

9/28: 2.3

9/29: 2.4

9/30: 2.5

10/1: 2.5 (Cont.)

10/2: 2.6

week 7

10/5: REVIEW

10/6: TEST 2

10/7: 2.7

10/8: 2.7 (Cont.)

10/9: 3.1

week 8

10/12: 3.1 (Cont.)

10/13: 3.2

10/14: 3.3

10/15: 3.4 (pages 275-278)

10/16: 3.5 (just Linear Regression; use Graphing Calculator)

week 9

10/19: 4.1

10/20: 4.1 (Cont.)

10/21: REVIEW

10/22: TEST 3

10/23: 4.2

week 10

10/26: 4.2 (Cont).

10/27: 5.1

10/28 5.1 (Cont.)

10/29: 5.2

10/30: 5.2 (Cont.)

week 11

11/2: 5.3

11/3: 5.3 (Cont.)

11/4: REVIEW

11/5: TEST 4

11/6: 5.4

week 12

11/9: 5.4 (Cont.)

11/10: 5.5

11/11: 5.5 (Cont.)

11/12: 6.1 (just Linear Systems)

11/13: 6.1 (Cont.)

week 13

11/16: REVIEW

11/17: TEST 5

11/18 6.2

11/19: 6.2 (Cont.)

11/20: 6.3

THANKSGIVING BREAK

week 14

11/30: 6.3 (Cont.)

12/1: CATCH UP DAY

12/2: CATCH UP DAY

12/3: REVIEW

12/4: REVIEW

FINAL EXAM: Monday, December 7th, 10:15 am – 12:15 am in Smith Hall 518